

Title (en)

Mat forming process and apparatus

Title (de)

Verfahren und Gegenstand zur Herstellung von Matten

Title (fr)

Procédé et dispositif pour formage de nattes

Publication

EP 0600106 B1 19960724 (EN)

Application

EP 92119678 A 19921119

Priority

- EP 92119678 A 19921119
- CA 2083116 A 19921117
- JP 32080292 A 19921130
- US 68589691 A 19910416

Abstract (en)

[origin: US5169571A] A mat of reinforcement material, such as glass fiber reinforcement material, is manufactured by forming a layer of continuous strand or chopped fibers on a conveyor belt and conveying the layer along a defined path. At a location downstream of the application of the layer, the layer of fibers is coated with a binder in the range of 2.0-10.0 weight percent, either a microwave-sensitive binder or an ultraviolet-sensitive, binder and the binder-coated layer is fed into a radiation tunnel which includes a compression stage and a curing stage. In this radiation tunnel, the binder-coated layer is compressed to a desired density-thickness ratio and cured, the compression and curing occurring in stages, and the resulting mat is taken from the conveyor belt and wound up for storage. The curing energy is supplied as the selected microwave or ultraviolet radiation and the radiation is applied between sets of compression rollers or through compression rollers or webs which are transparent to the specific electromagnetic energy.

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D04H 1/64

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CPC (source: EP US)

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Cited by

FR2809406A1; EP1484148A1; GB2423279A; GB2423279B; WO0192380A1; WO03054264A1; WO2005056275A1; EP1456444B2

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